

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Curt Harrington (Reg. No. 31,456) on 09/22/2010.

The application has been amended as follows:

#### **In the Claim:**

##### **Claim 21 (currently amended):**

Line 10, substitute "the machine" to - - a machine - -.

Line 16, substitute "the cutting edge" to - - a cutting edge - -.

Line 17, substitute "attaching IC-tag" to - - attaching the IC-tag - -.

Line 21, substitute "using trim" to - - using a set of trim - -.

Line 22, substitute "using encoder" to - - using a set of encoder - -.

Line 23, substitute "the length" to - - a length - -.

Line 25, substitute "the tape" to - - the IC-tag tape - -.

Line 28, substitute "said tape substrate" to - - said IC-tag tape substrate - -.

Line 30, substitute "said tape substrate" to - - said IC-tag tape substrate - -.

##### **Claim 24 (currently amended):**

Line 15, substitute "the machine" to - - a machine - -.

Lines 24 and 25, substitute "successive sheet material" to - - successive wet paper material - -.

Line 30, substitute "the tape substrate" to - - a tape substrate - -.

**Claim 26 (currently amended):**

Line 11, substitute "the machine" to - - a machine - -.

Lines 16 and 17, substitute "the cutting edge" to - - a cutting edge - -.

Line 23, substitute "the next die-cutting" to - - a next die-cutting - -.

Lines 23 and 24, substitute "using trim data" to - - using a set of trim data - -.

Line 24, substitute "using encoder" to - - using a set of encoder - -.

**Claim 29 (currently amended):**

Line 17, substitute "cur" to - - cut - -.

Line 25, substitute "the machine direction" to - - a machine direction - -.

Lines 30 and 31, substitute "the cutting edge" to - - a cutting edge - -.

Line 31, substitute "IC-tag tape" to - - the IC-tag tape - -.

Line 37, substitute "the next die-cutting" to - - a next die-cutting - -.

Line 38, substitute "using trim data" to - - using a set of trim data - -.

Line 39, substitute "using encoder" to - - using a set of encoder - -.

**Claim 36 (currently amended):**

Line 9, substitute "the machine direction" to - - a machine direction - -.

Line 14, substitute "the cutting" to - - a cutting - -.

Line 15, substitute "IC-tag tape" to - - said IC-tag tape - -.

Line 21, substitute "the next die-cutting" to - - a next die-cutting - -.

Lines 21 and 22, substitute "using trim data" to - - using a set of trim data - -.

Lines 22 and 23, substitute "using encoder" to - - using set of encoder - -.

**Claim 38 (currently amended):**

Line 9, substitute "the machine direction" to - - a machine direction - -.

Lines 14 and 15, substitute "the cutting" to - - a cutting - -.

Lines 15 and 16, substitute "IC-tag tape" to - - said IC-tag tape - -.

Line 21, substitute "the next die-cutting" to - - a next die-cutting - -.

Line 22, substitute "using trim data" to - - using a set of trim data - -.

Line 23, substitute "using encoder" to - - using set of encoder - -.

**Claim 40 (currently amended):**

Line 10, substitute "the machine direction" to - - a machine direction - -.

Line 15, substitute "the cutting" to - - a cutting - -.

Line 16, substitute "IC-tag tape" to - - said IC-tag tape - -.

Line 21, substitute "the next die-cutting" to - - a next die-cutting - -.

Lines 21 and 22, substitute "using trim data" to - - using a set of trim data - -.

Lines 22 and 23, substitute "using encoder" to - - using set of encoder - -.

***Allowable Subject Matter***

2. Claims 21, 24, 26, 29, 33 and 36-40 are allowed.
3. The following is an examiner's statement of reasons for allowance:

The prior art of record, taken alone or in combination, fails to teach or fairly suggest a successive sheet material having a plurality of IC-tag tape along its entire length, and especially comprising the step of providing said IC-tag tape in a machine

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direction to attach said IC-tag tape into said successive sheet material continuously unwinding IC-tag tape substrate at a substantially equivalent speed to the running speed of said successive sheet material and attaching said IC-tag tape to said successive sheet material in an undetermined machine direction position with regard to a cutting edge of said successive sheet material in attaching IC-tag tape located in any machine direction to said successive sheet material; and calculating by a production control device whether IC-tags are positioned in an area of the cut sheet to be trimmed in a next die-cutting process, using a set of trim data of the box blank to be formed into boxes, and using set of encoder signals at the stream of a cutter indicating a length of said successive sheet material and detecting means signals indicating location of the IC-tags on the tape attached to said successive sheet material; wherein said successive sheet material is formed in a plurality of layers, wherein an interface between said IC tag tape substrate and layer material forms less than 5mm dry streak, wherein said dry streak has a width of said tape substrate that does not reduce the compressive strength of the cut sheets and boxes and in combination with other steps as recited in claim 21.

The prior art of record, taken alone or in combination, fails to teach or fairly suggest a successive wet paper material having several IC-tag tapes in serially parallel along its entire length, and especially comprising the step of providing said IC-tag tape in the machine direction to a position between the wet webs running in the paper machine at a substantially equivalent speed of the wet paper material attaching said IC-tag tape to said successive sheet material in an undetermined machine direction

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position; and combining said several wet webs into wet paper to make the resultant paper product attached to said IC-tag tapes successively, wherein said IC-tags are adhered on the tape substrate with adhesive material and in combination with other steps as recited in claim 24.

The prior art of record, taken alone or in combination, fails to teach or fairly suggest a successive wet paper material having several IC-tag tapes in serially parallel along its entire length, and especially comprising the step of providing said IC-tag tape in the machine direction at a substantially equivalent speed to the running speed to the successive sheet material to attach said IC-tag tape to said successive sheet material continuously unwinding IC-tag tape and attaching said IC-tag tape to said successive sheet material in an undetermined machine direction position with regard to a cutting edge of said sheet material in attaching said IC-tag tape located in any machine direction to said successive sheet material; and calculating by a production control device stored previously calculated relative position among an encoder, an interrogator and a cutter whether IC-tags are positioned in an area of the cut sheet to be trimmed in a next die-cutting process, using a set of trim data of the box blanks to be formed into boxes, and using a set of encoder signals at the upstream of the cutter indicating the length of said successive sheet material and detecting means signals indicating location of the IC-tags on the tape attached to said successive sheet material; wherein said successive sheet material is a plastic corrugated board being formed of a plurality of layers, wherein said IC tag tape is put on a hot-melted part of said plastic corrugated board and in combination with other steps as recited in claim 26.

The prior art of record, taken alone or in combination, fails to teach or fairly suggest a cut sheet from a successive sheet material cut by pulling IC-tag tapes being attached to said successive sheet material in serially parallel along its entire length, and especially comprising the steps of providing said IC-tag tape in a machine direction at a substantially equivalent speed to the running speed to the successive sheet material to attach said IC-tag tape to said successive sheet material continuously unwinding IC-tag tape and attaching said IC-tag tape to said successive sheet material in an unpredetermined machine direction with regard to a cutting edge of said successive sheet material in attaching said IC-tag tape located in any machine direction position to said successive sheet material; calculating by a production control device storing previously calculated relative position among an encoder, an interrogator and a cutter whether IC-tags are positioned in an area of the cut sheet to be trimmed in a next die-cutting process, using a set of trim data of the box blanks to be formed into boxes, and using a set of encoder signals at the upstream of the cutter indicating the length of said successive sheet material and detecting means signals indicating location of the IC-tags on the tape attached to said successive sheet material; cutting said successive sheet material into said cut sheets with a predetermined length in the machine direction; and rejecting defective sheets that IC-tag position is determined to be positioned in a trimmed area and defective sheets with no IC-tag signal by an interrogator detection at the upstream of an auto stacker before die cutting process by a diverter and in combination with other steps as recited in claim 29 and further limitations of the dependent claim 33.

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The prior art of record, taken alone or in combination, fails to teach or fairly suggest a successive sheet material having several IC-tag tapes in serially parallel along its entire length, and especially comprising the step of providing said IC-tag tape in a machine direction at a substantially equivalent speed to the running speed to the successive sheet material to attach said IC-tag tape to said successive sheet material continuously unwinding IC-tag tape and attaching said IC-tag tape to said successive sheet material in an undetermined machine direction with regard to a cutting edge of said successive sheet material in attaching said IC-tag tape located in any machine direction position to said successive sheet material; and calculating by a production control device stored previously calculated relative position among the encoder, the interrogator and the cutter whether IC-tags are positioned in an area of the cut sheet to be trimmed in a next die-cutting process, using a set of trim data of the box blanks to be formed into boxes, and using a set of encoder signals at the upstream of the cutter indicating the length of said successive sheet material and detecting means signals indicating location of the IC-tags on the tape attached to said successive sheet material; wherein said IC-tag tapes are attached with an IC-tag pitch according to cut length of cut sheets to be formed in manufactured cases, wherein said successive sheet material can be cut by pulling IC-tag tapes that can be strong as common cut tapes, wherein said IC-tag tapes are configured and embedded around the surface of cases to be used to open and display and in combination with other steps as recited in claim 36 and further limitations of the dependent claim 37.

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The prior art of record, taken alone or in combination, fails to teach or fairly suggest a successive sheet material that can be cut by pulling IC-tag tapes attached to said successive sheet material in parallel along its entire length, especially comprising the steps of providing said IC-tag tape in a machine direction at a substantially equivalent speed to the running speed to the successive sheet material to attach said IC-tag tape to said successive sheet material continuously unwinding IC-tag tape and attaching said IC-tag tape to said successive sheet material in an undetermined machine direction position with regard to a cutting edge of said successive sheet material in attaching said IC-tag tape located in any machine direction position to said successive sheet material; and calculating by a production control device storing previously calculated relative position among the encoder, the interrogator, and the cutter whether IC-tags are positioned in an area of the cut sheet to be trimmed in a next die-cutting process, using a set of trim data of the box blanks to be formed into boxes, and using a set of encoder signals at the upstream of the cutter indicating the length of said successive sheet material and detecting means signals indicating location of the IC-tags on the tape attached to said successive sheet material; wherein IC-tag attached on the tape substrate with adhesive material and not adhered on the successive sheet material; wherein said IC-tag tapes are attached with an IC-tag pitch according to cut length of cut sheets by a cutter; wherein said tape substrate is strong to use as cut tapes; wherein said successive sheet material is inspected in the production line by a production control device before the successive sheet material is cut into cut sheets and



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in combination with other steps as recited in claim 38 and further limitations of the dependent claim 39.

The prior art of record, taken alone or in combination, fails to teach or fairly suggest a paper book cover wrapping around a book and having IC-tag tapes along a length of said paper book cover, and especially comprising the step of providing said IC-tag tape in a machine direction at a substantially equivalent speed to the running speed to the successive sheet material to attach a IC-tag tape to said successive sheet material without rewinding the tape substrate and without predetermining the machine direction position of IC-tag with regard to a cutting edge of said successive sheet material in attaching said IC-tag tape located in any machine direction to said successive sheet material; calculating by a production control device stored previously calculated relative position among the encoder, the interrogator and the cutter whether IC-tags are positioned in an area of the cut sheet to be trimmed in a next die-cutting process, using a set of trim data of the box blank to be formed in boxes, and using a set of encoder signals at the upstream of the cutter indicating the length of said successive sheet material and detecting means signals indicating location of the IC-tags on the tape attached to said successive sheet material; cutting said successive sheet material into said paper book cover with a predetermined length in the machine direction; and rejecting defective sheets that IC-tag position is damaged and defective sheets with no IC-tag signal by an interrogator detection at the upstream of an auto stacker; wherein said paper book cover is die-cut from successive sheet material having IC-tag tapes in parallel; wherein said IC-tag tape can be torn off the book cover; wherein said paper

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book cover has said IC-tag tape attached with such an IC-tag pitch that each paper book cover includes at least one IC-tag and in combination with other steps as recited in claim 40.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyen Kim Vo whose telephone number is (571)270-1657. The examiner can normally be reached on Monday - Friday, 7:30a.m. - 5:00p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven S. Paik can be reached on (571) 272-2404. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. K. V./  
Examiner, Art Unit 2887

/Thien M. Le/  
Primary Examiner, Art Unit 2887